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Graduate Education in the Biomedical Sciences and Public Health

Address all graduate education inquiries to:

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The goal of graduate study in the basic biomedical sciences at the USUHS is to develop independent scholarship, originality, and competence in research, teaching, and professional service. The graduate programs are designed for outstanding students committed to careers in the biomedical sciences and public health.

Doctoral and Master's Degree Programs

The doctoral and master's degree programs available at USUHS are listed below.

- Interdisciplinary Ph.D. Programs
 - Emerging Infectious Diseases
 - Molecular and Cellular Biology
 - Neuroscience
- Departmentally based Ph.D. Programs
 - Clinical Psychology
 - Environmental Health Sciences
 - Medical Psychology
 - Medical Zoology
 - Pathology
 - Applied Human Biology (Undersea Medicine)
- Doctor of Public Health (Dr.P.H.)
- Physician Scientist (M.D./Ph.D.) Program
- Master of Science
 - Public Health
 - Molecular and Cellular Biology
 - Applied Human Biology (Undersea Medicine and Aviation Physiology)
- Master of Public Health (M.P.H.)
- Master of Tropical Medicine and Hygiene
- Master of Military Medical History

USUHS graduate programs are offered to both civilian and military students and are an essential part of the academic environment at the University. Large numbers of both basic science and clinical science faculty members are involved in didactic and research training of USUHS graduate students. An excellent faculty-to-student ratio is provided by the more than 150 biomedical science faculty members who teach graduate courses and mentor students during their research and thesis preparation. Graduate training programs are conducted in state-of-the-art research facilities on the USUHS campus. Students can enhance their educational experiences at USUHS through collaboration with NIH, the Library of Medicine, Walter Reed Army Institute of Research, Armed Forces Institute of Pathology, and numerous biotechnology companies in the areas.

The 170 graduate students currently enrolled in the doctoral and master's degree programs at USUHS come from all parts of the country, from all types of undergraduate academic institutions, and from many different careers. Most students are enrolled full-time, but a few exceptional students are accepted into degree-granting programs as

part-time students. Two-thirds of the graduate students are pursuing doctoral degrees (Ph.D. or Dr.P.H.) and one-third are master's degree candidates.

The University offers stipends on a competitive basis to civilian doctoral students who are U.S. citizens or resident aliens. Outstanding applicants may be nominated for the Dean's Special Fellowship, which supports a stipend of an additional \$5,000. Civilian students do not incur a service obligation to the United States government after completion of their graduate training program. Active-duty military personnel accepted for full-time study must have the consent and sponsorship of their parent service. Tuition is waived for USUHS graduate students.

Applicants must have completed a bachelor's degree from an accredited academic institution prior to enrollment. Program and application information can be found at www.usuhs.mil (click on "Graduate Education"). Completed application should be received before January 15 for matriculation in late August. There is no application fee.



Specific Graduate Programs and Research Areas

Emerging Infectious Diseases Program

This interdisciplinary program has three academic tracks within the field of emerging infectious diseases: microbiology and immunology, pathology, or preventive medicine/parasitology, with primary interest in the pathogenesis, host response, pathology, and epidemiology of infectious diseases. Research training emphasizes modern methods in molecular biology, cell biology and interdisciplinary approaches. Contact emetcalf@usuhs.mil or visit www.usuhs.mil/mic/eid.html.

Molecular and Cell Biology Program

This interdisciplinary Ph.D. program offers training to address many of the fundamental questions of modern biology ranging from protein-nucleic acid interactions to cytokines, growth factors, and developmental biology. Prospective students should have a background in biological or chemical sciences. Study for the M.S. degree is available to uniformed officers. Contact jharmon@usuhs.mil or visit www.usuhs.mil/mcb/index.html.

Neuroscience Program

This is an interdisciplinary Ph.D. program for students with strong training in the biological, behavioral, and/or physical sciences. Research includes development, regeneration, and plasticity in the nervous system, molecular neurobiology, and adaptive responses of the nervous system to stress, injury, and a changing environment. Integrated instruction in the development, structure, function and pathology of the nervous system and its interaction with the environment is provided. Contact armstrong@usuhs.mil or visit www.usuhs.mil/nes/home.html.

Department of Medical and Clinical Psychology

Doctoral programs and research in medical psychology emphasize the application of psychology to behavioral medicine and to clinical psychology. Study in applied areas on the interface of health, psychology, and behavior, and in basic areas of psychology is offered. An American Psychological Association-accredited clinical psychology Ph.D. program is offered to selected members of the Uniformed Services. Contact tsbrocco@usuhs.mil or visit www.usuhs.mil/mps/Psychology/index.html.

Department of Medical History

A Master of Military Medical History (MMH) program is offered to U.S. Army officers. The program is designed to meet the needs of Army officers in the Medical Service Corps MOS 70H, to prepare the officer to be an instructor in professional military medical education programs, and for utilization as a field historian for specific military medical issues. Contact dcsmith@usuhs.mil or visit www.usuhs.mil/meh/gradprog.html

Department of Pathology

Programs of research and study focus on molecular approaches to pathology of human disease. They include genetics, carcinogenesis, immunology, and cell biology. Contact rmaheshwari@usuhs.mil or visit www.path.usuf2.usuhs.mil/default.html.

Department of Military and Emergency Medicine

This program recognizes the broad range of techniques and disciplines spanned by operationally oriented applied biology in the undersea and aerospace environments. Research areas include applied human biology that affects military missions, deployability, and readiness of military personnel. Programs of study, available to uniformed service members, are an M.S. and Ph.D. in Undersea Medicine, and M.S. in Aviation Physiology. Contact pdeuster@usuhs.mil or visit www.usuhs.mil/mim/gradprog.htm.



Department of Preventive Medicine and Biometrics

Graduate programs in public health are offered at the master's and doctoral levels. The Master of Public Health (MPH), Master of Tropical Medicine and Hygiene (MTM&H), and the Master of Science in Public Health (MSPH) programs are designed for students with at least three years of experience in a health-related field. The Doctorate in Public Health program prepares individuals for leadership roles in research, teaching, or policy development in the field of public health. Two Ph.D. programs are offered: Medical Zoology, for students with a master's degree in entomology or parasitology who wish to pursue further study in field-oriented medical parasitology or vector biology; and Environmental Health Sciences, which includes environmental health science research particularly in the area of military-relevant exposure assessment. Contact ggackstetter@usuhs.mil or visit www.usuhs.mil/pmb/pmb.html.

Additional academic departments that contribute extensively to the teaching and research training of doctoral and masters students through the interdisciplinary programs include: anatomy, physiology and genetics, biochemistry, microbiology and immunology, and pharmacology.